

access was made otherwise, thereby providing special exclusive information to the user under particular conditions.

According to still another preferred embodiment of the present invention, a temporary recording capability of simultaneously recording television video and voice signals and data is added to the terminal device, thereby realizing the same service as those provided in broadcasting by reproducing the recorded information later.

While we have shown and described several preferred embodiments in accordance with the present invention, it is understood that the same is not limited thereto but is susceptible of numerous changes and modifications as known to those skilled in the art, and we therefore do not wish to be limited to the details shown and described herein but intend to cover all such changes and modifications as are encompassed by the scope of the appended claims.

WHAT IS CLAIMED IS:

1. A media-integrating system comprising:

a terminal device capable of receiving first information from a first medium, second information from a second medium, and third information from a third medium; and

a link information adding means for adding link

information to said first information for providing link with said second information and said third information.

2. A media-integrating system comprising:

a terminal device capable of receiving first information from a first medium, second information from a second medium, and third information from a third medium;

a first link information adding means for adding first link information to said first information for providing link with said second information and said third information; and

a second link information adding means for adding second link information to said second information for providing link with said first information and said third information.

3. A media-integrating system comprising:

a terminal device capable of receiving first information from a first medium, second information from a second medium, and third information from a third medium;

a first link information adding means for adding first link information to said first information for providing link with said second information and said third information;

a second link information adding means for adding second link information to said second information for providing link with said first information and said third information; and

a third link information adding means for adding

third link information to said third information for providing link with said first information and said second information.

4. A media-integrating system comprising:

5 a communication network information providing device;

a package information providing device;

a broadcast information providing device;

10 an information terminal device capable of receiving information from said communication network information providing device, information from said package information providing device, and information from said broadcast information providing device; and

15 a transfer means for performing information transfer between each of the information providing devices and said information terminal device.

20 5. A media-integrating system having a terminal device and an information providing device each provided with an information transfer means having at least a communication network capability, a storage medium capability, and a broadcasting processing capability.

6. A media-integrating system comprising:

a terminal device capable of receiving broadcast information and information from a package;

25 a link information adding means for adding link information to said broadcast information for reading information from said package; and

a reading means for reading information stored in said package by use of said link information.

7. The media-integrating system according to claim 6, wherein said package has a storage medium recorded with information.

8. A broadcasting method of a media-integrating system, comprising the step of broadcasting a broadcast signal added with information for giving an instruction for reading particular information from a storage medium recorded with information.

9. A terminal device of a media-integrating system comprising:

a display block for displaying information;

an input control block for accepting an input instruction from outside said terminal device;

a memory block for storing a program;

a broadcast receiving block for receiving broadcast information to extract a video signal, an audio signal and data;

a package control block for reading data from a package and writing data thereto; and

a central processing unit for executing said program and performing control on each of the blocks;

whereby said broadcast receiving block acquires link information for giving an instruction for reading particular information from said package and said package control block is controlled by said link information to read

information stored in said package and displays the read information onto said display block.

10. A terminal device of a media-integrating system comprising:

5 a display block for displaying information;
an input control block for accepting an input instruction from outside said terminal device;

a memory block for storing a program;

10 a broadcast receiving block for receiving broadcast information to extract a video signal, an audio signal and data;

a package control block for reading data from a package and writing data thereto; and

15 a central processing unit for executing said program and performing control on each of the blocks;

whereby said broadcast receiving block acquires link information for giving an instruction for reading particular information from said package and said package control block, if said package is not inserted in said terminal device, is controlled by said link information to display on said display block a message that requests loading of a corresponding disc.

11. A terminal device of a media-integrating system comprising:

25 a display block for displaying information;
an input control block for accepting an input instruction from outside said terminal device;

a memory block for storing a program;

a broadcast receiving block for receiving broadcast information to extract a video signal, an audio signal and data;

5 a package control block for reading data from a package and writing data thereto; and

a central processing unit for executing said program and performing control on each of the blocks;

10 whereby said broadcast receiving block acquires link information for giving an instruction for reading particular information from said package and said package control block, if said package differs from a target package, is controlled by said link information to display on said display block a message indicating a wrong disc.

15 12. A terminal device of a media-integrating system comprising:

a display block for displaying information;

an input control block for accepting an input instruction from outside said terminal device;

20 a memory block for storing a program;

a broadcast receiving block for receiving broadcast information to extract a video signal, an audio signal and data;

25 a package control block for reading data from a package and writing data thereto;

a central processing unit for executing said program and performing control on each of the blocks; and

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a temporary storage device for receiving and recording broadcast information;

whereby said broadcast receiving block acquires link information for giving an instruction for reading particular information from said package, stores the acquired link information into said temporary storage device, and reads the information stored in said package by reproducing and outputting said link information from said temporary storage device.

13. A recording medium for use in a media-integrating system to be accessed via communication characterized by storing an instruction for reading information associated with a broadcast program from a package.

14. The recording medium according to claim 13, wherein said storage medium to be accessed via said communication is arranged at a server that communicates with a terminal device via a communication network.

15. A storage medium storing an instruction that enables viewing of a broadcast program without following a particular procedure, said broadcast program normally requiring said particular procedure for viewing.

16. The storage medium according to claim 15, wherein said broadcast program requiring said particular procedure for viewing is a broadcast program for pay and said instruction that enables viewing of said broadcast program without following said particular procedure is a

free-of-charge.

17. A broadcasting method for use in a media-integrating system comprising the step of broadcasting information at least two types of information selected from information associated with a broadcast program, package link information for giving an instruction for reading particular information from a package, network link information for giving an instruction for reading particular information from a storage medium arranged on an information providing device connected to a terminal device via a network.

18. A package recorded information at least two types of information selected from package link information for giving an instruction for reading particular information from a package, network link information for giving an instruction for reading particular information from a storage medium arranged on an information providing device connected to a terminal device via a network, and information associated with a broadcast program.

19. A recording medium for use in an information providing device, said recording medium recording information at least two types of information selected from package link information for giving an instruction for reading particular information from a package, network link information for giving an instruction for reading particular information from a storage medium arranged on said information providing device connected to a terminal

device via a network, and information associated with a broadcast program.

20. A terminal device of a media-integrating system comprising:

5 a display block for displaying information;
an input control block for accepting an input instruction from outside;

a memory block for storing a program;

10 a broadcast receiving block for receiving broadcast information and to extract a video signal, an audio signal and data;

a package control block for reading data from a package and writing data thereto;

15 a communication control block for performing communication with an information providing device;

a central processing unit for executing said program and performing control on each of the blocks; and

an information reading means that, based on first link information of said broadcast information having said
20 first link information for giving an instruction for reading particular information from said package and second link information for giving an instruction for reading information stored in said information providing device, controls said package control block to read the stored
25 information and, based on said second link information, controls said communication control block to read information from said information providing device.

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21. A terminal device of a media-integrating system comprising:

a display block for displaying information;

5 an input control block for accepting an input instruction from outside;

a memory block for storing a program;

a broadcast receiving block for receiving broadcast information and to extract a video signal, an audio signal and data;

10 a package control block for reading data from a package and writing data thereto;

a communication control block for performing communication with an information providing device;

15 a central processing unit for executing said program and performing control on each of the blocks;

means for storing into said information providing device first link information for reading particular information from said package and second link information associated with a broadcast program;

20 a reading means that, based on an instruction of said first link information stored in said information providing device, controls said package control block to read information stored in said package; and

25 a control means that, based on said second link information, controls said broadcast receiving block.

22. A terminal device of a media-integrating system comprising:

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a display block for displaying information;
 an input control block for accepting an input instruction from outside;

a memory block for storing a program;
 5 a broadcast receiving block for receiving broadcast information and to extract a video signal, an audio signal and data;

a package control block for reading data from a package and writing data thereto;

10 a communication control block for performing communication with an information providing device;

a central processing unit for executing said program and performing control on each of the blocks;

means for storing into said package first link
 15 information for reading particular information from said package and second link information associated with a broadcast program;

a reading means that, based on an instruction of said first link information stored in said information providing
 20 device, controls said communication control block to read information stored in said information providing device;
 and

a control means that, based on said second link information, controls said broadcast receiving block.

25 23. A media-integrating method comprising the step of accessing a network for providing up-to-date information, a package for providing a large quantity of information,

and broadcasting for positively providing information.

24. A package for use in a media-integrating system, said package storing ciphertext information storing ciphered information and plaintext information storing information for use when said ciphertext information cannot be read.

25. A storage medium for use in a media-integrating system, said storage medium storing ciphertext information into a storage medium of an information providing device connected to a terminal device via a network and plaintext information storing information for use when said ciphertext information cannot be read.

26. A broadcasting method for use in a media-integrating system comprising a step of broadcasting a broadcast signal including link information for giving an instruction for reading particular information from a package and identification information for identifying a package having said particular information.

27. A recording medium for use in a media-integrating system, said recording medium being arranged on an information providing device connected to a terminal device via a network and recording link information for giving an instruction for reading particular information from a package and an identification information for identifying a package having said particular information.

28. Media-integrating data including at least two pieces of information including information for acquiring

broadcast data, information for acquiring data recorded on a package, and information for acquiring data recorded in an information providing device connected to a terminal device via a network.

5 29. Media-integrating data having ciphertext information storing ciphered information and plaintext information for storing information for use when said ciphertext information cannot be read.

10 30. Media-integrating data having an information group including at least two of information for acquiring broadcast data, information for acquiring data recorded in a package, and information for acquiring data recorded in an information providing device connected to a terminal device via a network; ciphertext information storing
15 ciphered information; and plaintext information storing information for use when said ciphertext information cannot be read.

20 31. The media-integrating data according to claim 28 ~~or 30~~, wherein information for permitting access to particular data is entered in at least one of said information for acquiring broadcast data, said information for acquiring data recorded in a package, and said information for acquiring data recorded in an information providing device connected to a terminal device via a
25 network.

32. The media-integrating data according to claim 28 ~~or 30~~, wherein information for making a particular pay

program free of charge is entered in at least one of said information for acquiring broadcast data, said information for acquiring data recorded in a package, and said information for acquiring data recorded in an information providing device connected to a terminal device via a network.

a 33. The media-integrating data according to claim 28 ~~or 30~~, wherein information for decoding ciphered data is added to any one of said information for acquiring broadcast data, said information for acquiring data recorded in a package, and said information for acquiring data recorded in an information providing device connected to a terminal device via a network.

10 34. The media-integrating data according to claim 28 ~~or 30~~, wherein information for accessing particular data recorded in said information providing device connected to said terminal device via said network is entered into the information for acquiring the data recorded in said information providing device.

20 35. The broadcasting means having data according to claim 28, ~~29 or 30~~, comprising a sending means for sending said media-integrating data.

a 36. The information providing device having data according to claim 28, ~~29 or 30~~, comprising a means for providing said media-integrating data.

a 37. The storage medium having data according to claim 28, ~~29 or 30~~, said storage means being recorded with

said media-integrating data.

38. The terminal device having data according to claim 28, ~~29 or 30~~, comprising a means for reproducing said media-integrating data.

39. A terminal device capable of acquiring data including at least two of first information for acquiring broadcast data, second information for acquiring data recorded in a package, and third information for acquiring data recorded in an information providing device connected to said terminal device via a network, said terminal device comprising:

a broadcast receiving block for receiving the broadcast data based on said first information;

a package control block for reading the data from said package based on said second information; and

a communication control block for performing data transfer with said information providing device based on said third information.

40. A terminal device comprising:

a receiving means for receiving data including ciphertext information storing ciphered information and plaintext information storing information for use when said ciphered information cannot be read;

a decoding means that, when information for decoding said ciphertext information is given, decodes data by use of said ciphertext information; and

a data acquiring means that, when the information

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for decoding said ciphertext information is not given,
acquires data by use of the plaintext information instead
of the ciphertext information.

41. A terminal device for acquiring at least two
5 of information for acquiring broadcast data, information
for acquiring data recorded in a package, and information
for acquiring data recorded in an information providing
device connected to said terminal device via a network;
filter information for selecting the data; and data with
10 an access key for permitting access to particular data
provided in at least one of the information group and said
filter information, said terminal device comprising:

a receiving means for receiving the data;

a storage means for storing said access key when
15 another data is acquired based on the information including
said access key;

a control means for controlling the stored access
key; and

a determining means for determining whether to
20 discard the acquired data by use of the access key controlled
by said control means and the filter information included
in the data.

42. A terminal device for acquiring data including
an access key for allowing access to particular data and
25 filter information for selecting said particular data, said
terminal device comprising:

a receiving means for receiving the data;

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a storage means for storing said access key when the data is displayed;

a control means for controlling the stored access key; and

5 a determining means for determining whether to discard the acquired data by use of the access key controlled by said controlling means and the filter information included in the data.

10 43. A terminal device for acquiring at least two of information for acquiring broadcast data, information for acquiring data recorded in a package, and information for acquiring data recorded in an information providing device connected to said terminal device via a network; and data with a free-of-charge key for permitting access to
15 particular data provided in at least one of the information group, said terminal device comprising:

a receiving means for receiving the data;

a storage means for storing said free-of-charge key when another data is acquired based on the information
20 including said free-of-charge key;

a first control means for controlling the stored free-of-charge key;

a second control means for controlling billing information when a pay program has been viewed; and

25 a flag adding means that, if the free-of-charge key exists in said first control means when the pay program has been viewed, adds a flag indicating that the billing

information controlled by said second control means is set to free-of-charge.

44. The terminal device capable of acquiring media-integrating data according to claim 34, further comprising:

a communication means for performing data transfer with said information providing device;

a data requesting means for requesting said information providing device for data via said communication means; and

a transmitting means that, if network information contains information for accessing particular data in said information providing device when requesting the same for data through said data requesting means, transmits said data to said information providing device.

45. A terminal device comprising:

an acquiring means for acquiring data including filter information for selecting data;

a reading means for reading a package identification information from a package inserted in said terminal device; and

a determining means for determining, by use of said identification information read from said package and filter information included in the acquired data, whether to discard said acquired data.

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